PATENT COOPERATION TREATY

PCT

REC'D 15 AUG 2005

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

PCT

(PCT Article 36 and Rule 70)

Ann	licantic	or or	ant's file reference				
Applicant's or agent's file reference P17811WO				FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)			
International application No. PCT/IB 03/05231				International filing date (day/mor	nth/year) Priority date (day/month/year) 07.04.2003		
	nation: 4L12/		ent Classification (IPC) or b	both national classification and IPC			
Applicant TELEFONAKTIEBOLAGET LM ERICSSON (PUBL) et al							
1.	 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. 						
2.	2. This REPORT consists of a total of 6 sheets, including this cover sheet.						
	This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).						
	These annexes consist of a total of 2 sheets.						
3.	This	repo	rt contains indications re	elating to the following items:			
	1	\boxtimes	Basis of the opinion				
	П.		Priority				
	111		Non-establishment of	opinion with regard to novelty,	inventive step and industrial applicability		
	١٧	\boxtimes	Lack of unity of invent		, , , , , , , , , , , , , , , , , , ,		
	V	×	Reasoned statement uncitations and explanations	under Rule 66.2(a)(ii) with rega tions supporting such statement	rd to novelty, inventive step or industrial applicability;		
	VI		Certain documents cit	ted			
	VII			international application			
	VIII Certain observations on the international application						
Date of submission of the demand				Date o	Date of completion of this report		
05.11.2004				11.08	.2005		
Nam	Name and malling address of the international preliminary examining authority:				zed Officer		
European Patent Office					to principal parameter and the second		
D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d				Forst	er, G		
Fax: +49 89 2399 - 4465				• •	one No. +49 89 2399-8986		

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l. Bas	sis of	the	repor	t
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 With regard to the elements of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	ם	Description, Pages						
	1,	, 3-43	as originally filed					
	2,	, 2a	received on 15.07.2005 with letter of 13.07.2005					
•	C	laims, Numbers						
		•	·					
	7-	34	as originally filed					
	Di	rawings, Sheets						
	1/2	20-20/20	as originally filed					
2	. With regard to the language, all the elements marked above were available or furnished to this Authority in language in which the international application was filed, unless otherwise indicated under this item.							
	Th —	lese elements were a	vailable or furnished to this Authority in the following language: , which is:					
		the language of a translation furnished for the purposes of the international search (under Rule 22 1/b)						
		the language of publication of the international application (under Rule 48.3/b))						
		the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).						
3.	Wi inte	With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:						
		contained in the international application in written form.						
		filed together with the international application in computer readable form.						
		furnished subsequently to this Authority in written form.						
		furnished subsequently to this Authority in computer readable form.						
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.						
		The statement that the listing has been furn	the information recorded in commutation to the					
4.	The	he amendments have resulted in the cancellation of:						
		the description,	pages:					
		the claims,	Nos.:					
		the drawings,	sheets:					

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	5. [been considered to go			(
		(Any replacement shee report.)	t containi	ng such am	endments m	ust be referre	∍d to under ite	em 1 and anne:	xed to this
	6. <i>F</i>	Additional observations, if no							
	IV. L	ack of unity of invention							
	1. In response to the invitation to restrict or pay additional fees, the applicant has:								
		restricted the claims.		. ,		ne applicant	nas:		
	\boxtimes	paid additional fees.							
		paid additional fees unde	er protest				•		
2	2. 🗆		the requi	romant of	inity of invent t or pay addit	ion is not cor	mplied with ar	nd chose, acco	rding to
3	. Th	is Authority considers that							
		complied with.							
	×	not complied with for the	following	reasons:					
	se	e separate sheet						•	
4.	Co exa	Consequently, the following parts of the international application were the subject of international preliminary examination in establishing this report:							
	Ø	all parts.					•		-
		the parts relating to claims	Nos				•		
V.	Rea cita	asoned statement under Æ tions and explanations s	Article 35 upporting	(2) with req g such stai	gard to nove tement	ity, inventiv	e step or ind	lustrial applica	ability;
		tement							
	Novelty (N)		Yes: No:	Claims Claims	1-34				
	Inve	ntive step (IS)	Yes: No:	Claims Claims	1-34				
	Indu	strial applicability (IA)	Yes: No:	Claims Claims	1-34				
2.	Citat	ions and explanations							

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see separate sheet

to section IV.

 Claims 1-14 and 23 to 34 relate to methods for controlling the transmission flow rate and the transcoding rate of a media gateway in a data bit transfer session from a serving entity to a client, whereas the session involves transmission of data bits over a wireless communication link.

Claims 15 to 22 relate to a method for negotiating the transmission flow rate in a data bit transfer session from a first mobile entity to a second mobile entity, whereas the session involves transmission of data bits over at least one wireless communication link.

These two inventions are not considered to be linked by a common inventive concept, Rule 13.1 PCT because there does not exist a technical relationship involving one or more of the same or corresponding special technical features in the sense of Rule 13.2 PCT between these two inventions.

Since the applicant has paid additional fees, all parts of the application were subject of examination.

to section V.

1. The first invention concerning claims 1-14 and 23 to 34 relates to a method for controlling the transmission flow rate of data bits in a data bit transfer session from a serving entity to a client and to a method for controlling the transcoding rate of a media gateway during a data bit transfer session from the media gateway to a client, according to the features of the independent claims 1 and 23 respectively.

The second invention concerning claims 15 to 22 relates to a method for negotiating the transmission flow rate of data bits in a data bit transfer session from a first mobile entity to a second mobile entity, according to the features of the independent claim 15.

2. The closest prior art document is considered to be document WO02/052800 (first document cited in the international search report) and is acknowledged in the

opening part of the description.

3. According to the features of claim 1 the inventive step consists in the special way of setting up the data transfer bit session by providing a radio control node to establish flow rate parameters relating to the wireless link, monitoring the wireless communication link and based on monitoring, sending new flow rate parameters so that the serving entity can update the transmission rate of the session in accordance with the new rate control parameters. In case of claim 23 the inventive step consists in the special way of setting up the data transfer bit session by providing a radio control node to establish transcoding rate parameters relating to the wireless link, monitoring the wireless communication link and based on monitoring, sending new transcoding rate parameters so that the media gateway can update the transmission rate of the session in accordance with the new transcoding rate parameters.

According to the features of claim 15 the inventive step consists in the special steps of the method for negotiating the transmission flow rate of data bits comprising providing a first and a second radio control node, resolving addressing between these two control nodes to allow communication between these two control nodes, sending rate control parameters to the control nodes for the respective link, matching the rate control parameters to obtain the actual bit transmission rate, and sending an indicator of the actual bit transmission rate to the mobile entities so that the bit transmission can occur at the transmission rate.

The underlying concept is not disclosed in or rendered obvious by the cited prior art documents. The subject-matter of the independent claims thus fulfils the requirements of Article 33 PCT.

 The dependent claims contain further details on the subject-matter of the respective independent claims. These dependent claims merely limit the scope of protection sought by the independent claims and are therefore also considered to fulfil the requirements of Article 33 PCT.